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Ala Ala Lys Asn Leu Ile Ile Phe Leu Gly Asp Gly Met Gly Val Ser  
50 55 60

5 Thr Val Thr Ala Ala Arg Ile Leu Lys Gly Gln Lys Lys Asp Lys Leu  
65 70 75 80

10 Gly Pro Glu Ile Pro Leu Ala Met Asp Arg Phe Pro Tyr Val Ala Leu  
85 90 95

15 Ser Lys Thr Tyr Asn Val Asp Lys His Val Pro Asp Ser Gly Ala Thr  
100 105 110

20 Ala Thr Ala Tyr Leu Cys Gly Val Lys Gly Asn Phe Gln Thr Ile Gly  
115 120 125

Leu Ser Ala Ala Ala Arg Phe Asn Gln Cys Asn Thr Thr Arg Gly Asn  
130 135 140

25 Glu Val Ile Ser Val Met Asn Arg Ala Lys Lys Ala Gly Lys Ser Val  
145 150 155 160

30 Gly Val Val Thr Thr Arg Val Gln His Ala Ser Pro Ala Gly Thr  
165 170 175

35 Tyr Ala His Thr Val Asn Arg Asn Trp Tyr Ser Asp Ala Asp Val Pro  
180 185 190

40 Ala Ser Ala Arg Gln Glu Gly Cys Gln Asp Ile Ala Thr Gln Leu Ile  
195 200 205

Ser Asn Met Asp Ile Asp Val Ile Leu Gly Gly Arg Lys Tyr Met  
210 215 220

45 Phe Arg Met Gly Thr Pro Asp Pro Glu Tyr Pro Asp Asp Tyr Ser Gln  
225 230 235 240

50 Gly Gly Thr Arg Leu Asp Gly Lys Asn Leu Val Gln Glu Trp Leu Ala  
245 250 255

55 Lys Arg Gln Gly Ala Arg Tyr Val Trp Asn Arg Thr Glu Leu Met Gln  
260 265 270

60 Ala Ser Leu Asp Pro Ser Val Thr His Leu Met Gly Leu Phe Glu Pro  
275 280 285

Gly Asp Met Lys Tyr Glu Ile His Arg Asp Ser Thr Leu Asp Pro Ser  
290 295 300

Leu Met Glu Met Thr Glu Ala Ala Leu Arg Leu Leu Ser Arg Asn Pro  
305 310 315 320

5

Arg Gly Phe Phe Leu Phe Val Glu Gly Gly Arg Ile Asp His Gly His  
325 330 335

10 His Glu Ser Arg Ala Tyr Arg Ala Leu Thr Glu Thr Ile Met Phe Asp  
340 345 350

15 Asp Ala Ile Glu Arg Ala Gly Gln Leu Thr Ser Glu Glu Asp Thr Leu  
355 360 365

20 Ser Leu Val Thr Ala Asp His Ser His Val Phe Ser Phe Gly Gly Tyr  
370 375 380

25 Pro Leu Arg Gly Ser Ser Ile Phe Gly Leu Ala Pro Gly Lys Ala Arg  
385 390 395 400

Asp Arg Lys Ala Tyr Thr Val Leu Leu Tyr Gly Asn Gly Pro Gly Tyr  
405 410 415

30 Val Leu Lys Asp Gly Ala Arg Pro Asp Val Thr Glu Ser Glu Ser Gly  
420 425 430

35 Ser Pro Glu Tyr Arg Gln Gln Ser Ala Val Pro Leu Asp Glu Glu Thr  
435 440 445

40 His Ala Gly Glu Asp Val Ala Val Phe Ala Arg Gly Pro Gln Ala His  
450 455 460

45 Leu Val His Gly Val Gln Glu Gln Thr Phe Ile Ala His Val Met Ala  
465 470 475 480

Phe Ala Ala Cys Leu Glu Pro Tyr Thr Ala Cys Asp Leu Ala Pro Pro  
485 490 495

50 Ala Gly Thr Thr Asp Ala Ala His Pro Gly Tyr Ser Arg Val Gly Ala  
500 505 510

55 Ala Gly Arg Phe Glu Gln Thr  
515